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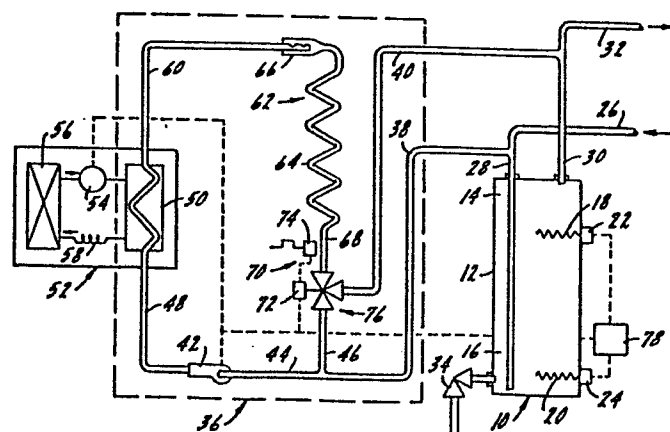
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54 **Batch-type water heating apparatus.**

57 Batch-type water heating apparatus (36) includes a heat exchanger (50) in which water is heated as it is circulated therethrough, a water storage zone (62), a flow control device (70), a water pump (42), and associated water lines (60,46,44,48) connecting these components to form a closed water circulating loop (76). Additional water lines (44,38) associated with the flow control device provide for the withdrawal of heated water from the loop and the addition of make-up water to the loop as water is withdrawn therefrom. The flow control device includes a valve (72) and a thermo-

stat (74) for sensing the water temperature at the outlet of the storage zone. The flow control device is operable to position the valve to facilitate withdrawal of heated water from the loop when the sensed temperature exceeds a predetermined value and to position the valve to facilitate circulation of water around the loop when the sensed temperature is below a predetermined value.



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# EUROPEAN SEARCH REPORT

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DOCUMENTS CONSIDERED TO BE RELEVANT			EP 84303641.9
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
D,P	US - A - 4 498 622 (HARNISH) * Column 2, line 62 - column 6, line 23 * --	1	F 24 H 1/18
D,A	US - A - 4 314 456 (HARNISH) * Column 3, line 12 - column 5, line 44; fig. * --	1	
D,A	US - A - 4 363 221 (SINGH) * Column 3, line 12 - column 5, line 44 * --	1	
D,A	US - A - 4 543 468 (SHAFFER) * Column 3, line 5 - column 4, line 56 * --	1	
A	DE - A1 - 3 120 118 (PROENERGIE WARME-TECHNIK AG) * Page 4, line 12 - page 5, line 3 * ----	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			F 24 H F 24 D F 24 J F 25 B H 05 B F 28 F F 25 D
The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 30-01-1986	Examiner ENDLER

## CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone  
Y : particularly relevant if combined with another document of the same category  
A : technological background  
O : non-written disclosure  
P : intermediate document

T : theory or principle underlying the invention  
E : earlier patent document, but published on, or after the filing date  
D : document cited in the application  
L : document cited for other reasons  
& : member of the same patent family, corresponding document